

FORM PTO-1390 (Modified)  
(REV. 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

## TRANSMITTAL LETTER TO THE UNITED STATES

18276

DESIGNATED/ELECTED OFFICE (DO/EO/US)

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

CONCERNING A FILING UNDER 35 U.S.C. 371

10/509266

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED

PCT/FI03/00232

26 March 2003 (26.03.2003)

27 March 2002 (27.03.2002)

## TITLE OF INVENTION

SEPARATION OF SUGARS, SUGAR ALCOHOLS, CARBOHYDRATES AND MIXTURES THEREOF

## APPLICANT(S) FOR DO/EO/US

Heikki Heikkila, Paivi Sarmala, Ari Karki, Nina Nurmi, Hannu Paananen

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV261613719
23. ☒ Other items or information:

Courtsey copy of international application  
Twelve (12) sheets of drawings

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.53) <b>10/509266</b>		INTERNATIONAL APPLICATION NO. <b>PCT/FI03/00232</b>		ATTORNEY'S DOCKET NUMBER <b>18276</b>	
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24. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :	CALCULATIONS	PTO USE ONLY																																																																												
<input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1080.00</b>																																																																														
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<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$730.00</b>																																																																														
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Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).	<b>\$0.00</b>																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 15%;">NUMBER EXTRA</th> <th style="width: 10%;">RATE</th> <th style="width: 10%;">x</th> <th style="width: 30%;">TOTAL</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>40 - 20 =</td> <td>20</td> <td>\$18.00</td> <td>x</td> <td><b>\$360.00</b></td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td>0</td> <td>\$86.00</td> <td>x</td> <td><b>\$0.00</b></td> </tr> <tr> <td colspan="5">Multiple Dependent Claims (check if applicable). <input checked="" type="checkbox"/></td> <td><b>\$290.00</b></td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td><b>\$1,730.00</b></td> </tr> <tr> <td colspan="5"> <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.         </td> <td style="text-align: center;"><b>\$0.00</b></td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>SUBTOTAL =</b></td> <td><b>\$1,730.00</b></td> </tr> <tr> <td colspan="5">           Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).         </td> <td style="text-align: center;"><b>\$0.00</b></td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>TOTAL NATIONAL FEE =</b></td> <td><b>\$1,730.00</b></td> </tr> <tr> <td colspan="5">           Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/> </td> <td style="text-align: center;"><b>\$0.00</b></td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>TOTAL FEES ENCLOSED =</b></td> <td><b>\$1,730.00</b></td> </tr> <tr> <td colspan="5"></td> <td style="text-align: center;">Amount to be: refunded \$</td> </tr> <tr> <td colspan="5"></td> <td style="text-align: center;">charged \$</td> </tr> </tbody> </table> <p>a. <input checked="" type="checkbox"/> A check in the amount of <b>\$1,730.00</b> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>19-1013</b></p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">     Leopold Presser      SCULLY, SCOTT, MURPHY &amp; PRESSER      400 Garden City Plaza      Garden City, New York 11530      516-742-4343   </div> <div style="margin-top: 20px;"> <p style="text-align: center;">SIGNATURE</p> <p style="text-align: center;"></p> <p style="text-align: center;">Leopold Presser</p> <p style="text-align: center;">NAME</p> <p style="text-align: center;"><b>19,827</b></p> <p style="text-align: center;">REGISTRATION NUMBER</p> <p style="text-align: center;"><b>September 27, 2004</b></p> <p style="text-align: center;">DATE</p> </div>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	x	TOTAL	Total claims	40 - 20 =	20	\$18.00	x	<b>\$360.00</b>	Independent claims	1 - 3 =	0	\$86.00	x	<b>\$0.00</b>	Multiple Dependent Claims (check if applicable). <input checked="" type="checkbox"/>					<b>\$290.00</b>	<b>TOTAL OF ABOVE CALCULATIONS =</b>					<b>\$1,730.00</b>	<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					<b>\$0.00</b>	<b>SUBTOTAL =</b>					<b>\$1,730.00</b>	Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).					<b>\$0.00</b>	<b>TOTAL NATIONAL FEE =</b>					<b>\$1,730.00</b>	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>					<b>\$0.00</b>	<b>TOTAL FEES ENCLOSED =</b>					<b>\$1,730.00</b>						Amount to be: refunded \$						charged \$
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10/509268

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): Heikki Heikkila et al.

Docket No.  
04 Rec'd PCT/PTO 18276 27 SEP 2004Application No.  
UnassignedFiling Date  
HerewithExaminer  
UnassignedCustomer No.  
23389Group Art Unit  
UnassignedInvention: SEPARATION OF SUGARS, SUGAR ALCOHOLS, CARBOHYDRATES AND MIXTURES  
THEREOF

I hereby certify that the following correspondence:

Transmittal Letter to U.S. Designated/Elected Office Concerning A Filing Under 35 U.S.C. 371

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

September 27, 2004*(Date)*Leopold Dresser*(Typed or Printed Name of Person Mailing Correspondence)*  
*(Signature of Person Mailing Correspondence)*EV261613719US*("Express Mail" Mailing Label Number)*

Note: Each paper must have its own certificate of mailing.